Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) A monolithic sputtering target assembly comprising a one piece assembly made from the same metal, wherein said one piece assembly comprises a sputtering target blank portion and a backing plate portion, wherein said sputtering target blank portion is at least partially recrystallized and wherein at least a portion of said backing plate portion is not recrystallized.
- 2. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal comprises tantalum.
- 3. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal comprises niobium.
- 4. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal comprises cobalt.
- 5. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal comprises titanium.
- 6. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal comprises a valve metal.
 - 7. (Canceled)
- 8. (Currently amended) The monolithic sputtering target assembly of claim 1, A monolithic sputtering target assembly comprising a one piece assembly made from the same metal, wherein said one piece assembly comprises a sputtering target blank portion and a backing

plate portion, wherein said backing plate portion comprises a flange portion that has a higher yield strength and/or is more rigid than said sputtering target blank portion.

- 9. (Currently amended) The monolithic sputtering target assembly of claim 1 8, wherein said sputtering target blank portion is at least partially recrystallized.
- 10. (Currently amended) The monolithic sputtering target assembly of claim 9 8, wherein said at least a portion of said backing plate portion is not recrystallized.
- 11. (Currently amended) The monolithic sputtering target assembly of claim § 16, wherein said flange portion has a higher yield strength and/or is more rigid than said sputtering target blank portion.
- 12. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has a purity of from about 99.5% or greater.
- 13. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has an average grain size of about 300 microns or less.
- 14. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has an average grain size of 100 microns or less.
- 15. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has an average grain size of about 25 microns or less.
- 16. (Currently amended) The monolithic sputtering target assembly of claim 1, A monolithic sputtering target assembly comprising a one piece assembly made from the same metal, wherein said one piece assembly comprises a sputtering target blank portion and a backing plate portion, wherein said metal has a texture of (111) on the surface or throughout said metal, or wherein said metal has a texture of (100) on the surface or throughout said metal or wherein said metal has a primary or mixed (111) texture throughout said metal.

- 17. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has a texture of (100) on the surface or throughout said metal.
- 18. (Original) The monolithic sputtering target assembly of claim 1, wherein said metal has a primary or mixed (111) texture throughout said metal.
- 19. (Currently amended) A sputtering target assembly comprising a backing plate and a sputtering target blank, wherein said backing plate and the sputtering target blank comprise the same metal comprises and wherein said same metal is a valve metal, cobalt, titanium, or alloys thereof, and said sputtering target blank comprises a metal.
 - 20. (Canceled)
- 21. (Original) The sputtering target assembly of claim 19, wherein said sputtering target blank and said backing plate are tantalum.
- 22. (Original) The sputtering target assembly of claim 19, wherein said sputtering target blank and said backing plate are niobium.
- 23. (Original) The sputtering target assembly of claim 19, wherein said sputtering target blank and said backing plate are titanium.
- 24. (Original) The sputtering target assembly of claim 19, wherein said sputtering target blank and said backing plate are cobalt.
- 25. (Original) A method of recycling a sputtering target comprising providing a monolithic sputtering target assembly of claim 1;

sputtering said monolithic sputtering target assembly to form a spent monolithic sputtering target assembly; and

recycling said monolithic sputtering target assembly.

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- (Original) The method of claim 25, wherein recycling comprises melting down 26. said spent monolithic sputtering target assembly.
- (Original) The method of claim 25, wherein said recycling involves filling in any 27. cavities present in said spent monolithic sputtering target assembly.
- (Original) The method of claim 25, recycling comprises redepositing metal on 28. said spent monolithic sputtering target assembly to form a new monolithic sputtering target assembly.
 - 29. (Canceled)
 - 30. (Canceled)
 - 31. (Canceled)
- (Original) A method of recycling a sputtering target comprising providing a 32. sputtering target assembly of claim 19;

sputtering said sputtering target assembly to form a spent sputtering target assembly; and recycling said sputtering target assembly.

- 33. (Canceled)
- (Original) The monolithic sputtering target assembly of claim 1, wherein said 34. metal is consolidated powder metal.
- (Original) The monolithic sputtering target assembly of claim 1, wherein said 35. metal is an ingot derived metal.
- (Original) The monolithic sputtering assembly of claim 1, wherein a portion of 36. said sputtering target comprises a consolidated powder metal and another portion of said sputtering target assembly comprises ingot derived metal.
 - (Previously presented) A monolithic sputtering target assembly comprising a one 37.

piece assembly made from the same metal, wherein said metal has a primary or mixed (111) texture and a minimum (100) texture on the surface or throughout the thickness of the sputtering target assembly, and is substantially void of (100) textural bands.

- 38. (Previously presented) A monolithic sputtering target assembly comprising a one piece assembly made from the same metal, wherein said metal has a primary or mixed (100) texture and a minimum (111) texture on the surface or throughout the thickness of the sputtering target assembly, and is substantially void of (111) textural bands.
- 39. (Previously presented) A method of recycling a sputtering target of claim 25, wherein the method comprises flame spraying or Osprey processes.
- 40. (Previously presented) The monolithic sputtering target assembly of claim 37, wherein said metal comprises tantalum.
- 41. (Previously presented) The monolithic sputtering target assembly of claim 37, wherein said metal comprises niobium.
- 42. (Previously presented) The monolithic sputtering target assembly of claim 38, wherein said metal comprises tantalum.
- 43. (Previously presented) The monolithic sputtering target assembly of claim 38, wherein said metal comprises niobium.